PATENT COOPERATION TREAT!

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French, Clive

SIEMENS PLO Postfach 22 16 34

ALLEMAGNE

D-80506 München

To:

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date of mailing

(day/month/year)

29.11.2004

Applicant's or agent's file reference

2002P12985WO

IMPORTANT NOTIFICATION

International application No. PCT/GB 03/02797

International filing date (day/month/year) 26.06.2003

Priority date (day/month/year)

17.08.2002

OXFORD MAGNET TECHNOLOGY LTD. et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

European Patent Office D-80298 Munich Tel. +49 89 2399 · 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Authorized Officer Wagnersen, L

Tel. +49 89 2399-5915

National Phase 30 months from priority Regional Phase 31 months from priority

Form PCT/IPEA/416 (January 2004)

PATENT COOPERATION * SATY

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 2002P12985WO FOR FURTHER AC				FOR FURTHER ACT	TION		on of Transmittal of International kamination Report (Form PCT/IPEA/416)	
1				International filing date (da	ay/mont	h/year)	Priority date (day/month/year)	
PCT/GB 03/02797 26.06.2003							17.08.2002	
	ationa B43/0		ent Classification (IPC) or	both national classification and	d IPC			
Applic OXF		MA	GNET TECHNOLO	GY L ^T D. et al.				
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2. This REPORT consists of a total of 8 sheets, including this cover sheet.								
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					ve rity		
These annexes consist of a total of 10 sheets.								
3.	Thic	reno	rt contains indications	relating to the following iten	ne:			
٥.	i	Epoi	Basis of the opinion	relating to the following her	113.			
	; {		Priority					
	" Ш		· · · · · · · · · · · · · · · · · · ·	of opinion with regard to nov	oltv in	vontivo eton	and industrial analisability.	
i	IV	⊠			veity, iii	vertive step	and industrial applicability	
	IV 🖾 Lack of unity of invention V 🖾 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				у;			
	VI		Certain documents	***				
	VII			e international application				
	VIII		Certain observations	s on the international applica	ation			
Date	of sub	missic	on of the demand		Date of	completion of the	his report	
11.03.2004			-410 01	oompleadit of the	no report			
				29.11.	2004			
Name prelin	e and i	mailin exam	g address of the internati ining authority:	onal	Authoriz	ed Officer	nes Pilong	
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Salaür		o de la companya de l	Director street		
Fax: +49 89 2399 - 4465				Telepho	ne No. +49 89	2399-2966	7 245.	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/02797

i. Dasis di lile lebu	Basis of the repo	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages			
	1, 2	., 6-10	as originally filed		
	3-5	, 11	received on 02.09.2004 with letter of 31.08.2004		
	Cla	ims, Numbers			
	1-12	2	received on 02.09.2004 with letter of 31.08.2004		
	Dra	wings, Sheets			
	2/3		as originally filed		
	1/3,	3/3	received on 02.09.2004 with letter of 31.08.2004		
2. With regard to the language , all the elements marked above were available or furnished to this Autholanguage in which the international application was filed, unless otherwise indicated under this item.					
	The	se elements were ava	ailable or furnished to this Authority in the following language: , which is:		
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).		
		the language of publi	ication of the international application (under Rule 48.3(b)).		
		the language of a tra Rule 55.2 and/or 55.0	nslation furnished for the purposes of international preliminary examination (under 3).		
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:		
		contained in the inter	rnational application in written form.		
		filed together with the	e international application in computer readable form.		
		furnished subsequen	itly to this Authority in written form.		
☐ furnished subsequently to this Authority in computer			itly to this Authority in computer readable form.		
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence shed.		
4.	The	amendments have re	esulted in the cancellation of:		
		the description,	pages:		
		the claims,	Nos.:		
		the drawings,	sheets:		

5.	\boxtimes	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sheet conta report.)	ining s	such amendr	ments must be referred to under item 1 and annexed to this			
		see separate sheet						
6.	Add	litional observations, if necessa	ıry:					
IV	. Lac	k of unity of invention						
1.	In re	n response to the invitation to restrict or pay additional fees, the applicant has:						
		restricted the claims.			•			
	\boxtimes	paid additional fees.						
		paid additional fees under pro	test.		•			
		neither restricted nor paid add	itional	fees.				
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.						
3.	This	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is						
		complied with.						
	\boxtimes	not complied with for the following reasons:						
	see	see separate sheet						
4.	Cor exa	nsequently, the following parts of the international application were the subject of international preliminary imination in establishing this report:						
	\boxtimes	all parts.						
		the parts relating to claims No	S					
٧.	Rea cita	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; tations and explanations supporting such statement						
1.	Stat	tement						
	Nov	relty (N)	Yes: No:	Claims Claims	1-6 7,8			
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-6			
	Indu	ustrial applicability (IA)	Yes:	Claims	1-8			

No: Claims

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/02797

2. Citations and explanations

see separate sheet

1. Basis of the report:

The amendments filed with letter of 31.08.04 introduced subject-matter which goes beyond the disclosure of the international application as filed, contrary to the requirements of Article 34(2)(b) PCT.

In particular, there appears to be no basis in the originally filed application documents for the following features:

- "the means [for preventing oil carry-over from the compressor to the supplied equipment) are located in the circuit between the low pressure port and the supplied equipment" (new claim 1): this appears to be an unallowable generalisation of the disclosure of original claims 2-5;
- "a pressure relief valve (12) operable ... directly to the compressor capsule (14)" (last 4 lines of new claim 7): page 11, lines 1-16 and Fig. 5 do not provide a basis for this feature, contrary to the assertion in your letter of 31.08.04.

Consequently, this report has been established as if the amendments to the claims and description had not been made, in accordance with Rule 70.2(c) PCT.

2. Lack of unity:

2a. Independent apparatus claims 1 and 7 both relate to a pumped helium circuit.

These claims are merely linked by the features of the circuit comprising a compressor with a high-pressure port and a low-pressure port each connected to a supplied equipment, and a pressure-relieve valve. Since such a circuit is already known (see for instance GB-A-2 084 306: compressor 1, high-pressure line 16, low-pressure line 11, supplied equipment 15 and pressure-relieve means 8), there is no technical relationship among those inventions involving one or more of the same or corresponding special technical features in the sense of Rule 13.2

PCT.

The requirement of unity of invention referred to in Rule 13.1 PCT is therefore not fulfilled.

- 2b. In response to the invitation to restrict the claims or to pay additional fees, the applicant has paid additional fees. The present report is therefore established on the basis of claims 1-8.
- As regards novelty and inventive step of claims 1-8 as originally 3. filed:
- 3a. Claim 1:

Patent specification GB-A-2 084 306 (hereafter referred to as D1) seems to show the most relevant prior art.

D1 (see, in particular, page 1, lines 76-116 and the figure) discloses a pumped helium circuit comprising a compressor (1) with a high pressure port (see 16) and a low pressure port (see 11) each connected to a supplied equipment (15) to respectively supply compressed helium to, and receive compressed helium from, the supplied equipment; a pressure relief valve (8) operable to link the high pressure port to the low pressure port in response to a predetermined pressure differential; and means (13, 14) for preventing oil carry-over from the compressor to the supplied equipment, said means comprising means for preventing oil leaving the low pressure port and travelling towards the supplied equipment.

The circuit of claim 1 differs from that of D1 in that it further comprises a non-return valve located between a low pressure side of the pressure relief valve and the supplied equipment.

However, it is obvious to the skilled man to provide the circuit with such a non-return valve if there is a risk of backflow of gas to the supplied equipment. Thus, the subject-matter of claim 1 does not involve an

inventive step (Article 33(3) PCT).

3b. Claims 2-6:

Dependent claims 2-6 do not appear to contain any additional feature which involves the exercise of any skill or ability beyond that to be expected of the man skilled in the art. Claims 2-6 therefore do not seem to meet the requirements of Article 33(3) PCT.

3c. Claim 7:

It is technically unclear what is meant by the feature of the pressure relief valve being connected between the high pressure port and the compressor "independently of the low pressure port". Therefore, this feature has not been taken into account when assessing the novelty of the subject-matter of claim 7...

D1 discloses a pumped helium circuit comprising a compressor (1) with a high pressure port (see 16) and a low pressure port (see 11) each connected to a supplied equipment (15) to respectively supply compressed helium to, and receive compressed helium from, the supplied equipment; and a pressure relief valve (8) operable to return compressed helium from the high pressure port to the compressor in response to a predetermined pressure differential; the pressure relief valve being connected between the high pressure port and the compressor.

Hence, the subject-matter of claim 7 is considered to be known from D1 (Article 33(2) PCT).

3d. Claim 8:

D1 discloses a method for preventing oil carry-over from a helium compressor (1) to a supplied equipment (15) comprising the steps of:

- supplying compressed helium through a high pressure port (see 16) to the supplied equipment;
- receiving compressed helium through a low pressure port (see 11)

from the supplied equipment;

- operating a bypass relief valve (8) in response to a differential pressure exceeding a predetermined value, thereby allowing oil-laden compressed helium to flow from the high pressure port to the compressor; and
- preventing oil from the oil-laden compressed helium from travelling from the low pressure port to the supplied equipment (see syphon 14 and oil-retaining means 13).

The subject-matter of claim 8 is therefore not novel (Article 33(2) PCT).

4. Certain defects in the international application:

Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in D1 is not mentioned in the description, nor is this document identified therein.